

Process for making an aluminide dispersed ferrite diffusion coating on an austenitic stainless steel substrate.

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A process for the co-diffusion of aluminum and other elements into austenitic steel which includes heating the steel to a temperature at which co-diffusion occurs in the presence of a source of aluminum, a catalyst and metallic or metalloid elements having substantial solubility in ferrite (bcc phase of iron or iron alloy) so that a microstructure is formed on the steel which is a single layer composite and which includes a fine dispersion of compatible aluminide particles in a continuous ductile ferrite matrix.

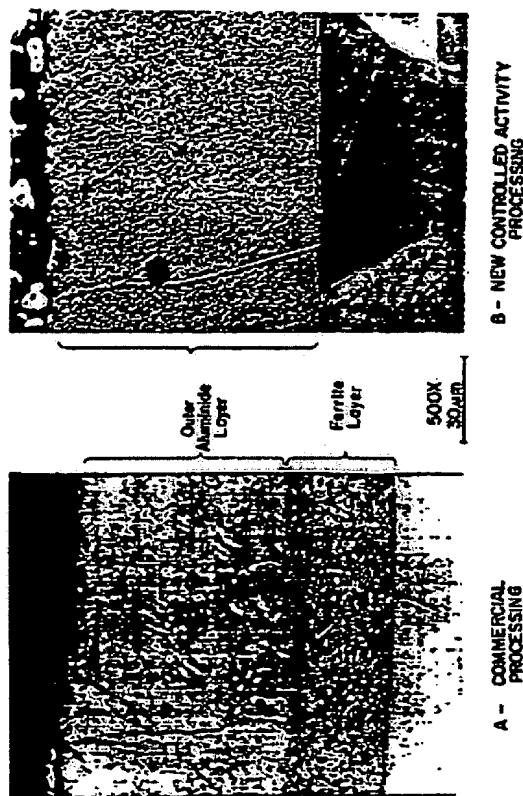


FIG 1

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